

CLASSIFICATION

SECRET

SECRETCENTRAL INTELLIGENCE AGENCY
INFORMATION FROM
FOREIGN DOCUMENTS OR RADIO BROADCASTS

REPORT

50X1-HUM

CD NO.

COUNTRY USSR

DATE OF
INFORMATION 1950 - 1951SUBJECT Economic; Technological - Coal-mining
machinery

DATE DIST. /7 Apr 1951

HOW
PUBLISHED Monthly periodical and daily newspaperWHERE
PUBLISHED Moscow; Kiev

NO. OF PAGES 4

DATE
PUBLISHED Oct 1950 - Jan 1951SUPPLEMENT TO
REPORT NO.

LANGUAGE Russian

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE
OF THE UNITED STATES WITHIN THE MEANING OF ESPIONAGE ACT 80
U. S. C. 31 AND 32 AS AMENDED. ITS TRANSMISSION OR THE REVELATION
OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PRO-
HIBITED BY LAW. REPRODUCTION OF THIS FORM IS PROHIBITED.

THIS IS UNEVALUATED INFORMATION

SOURCE Periodical and newspaper as indicated.

SOVIETS PRODUCE VARIOUS MINE-CAR FEEDERS;
NEW PUMPS, CONVEYER APPEAR

ELECTRIC-POWERED MACHINES PREDOMINATE -- Moscow, Ugol', No 1, Jan 51

Six ordinary mine-car feed mechanisms are produced in the USSR. Their
designations, originating plants, and specifications are as follows:

The TV-1 piston-action pneumatic-powered feeder is series-produced at
the Toretskiy Plant.

Specifications

Dimensions (mm):	
Length	3,400
Width	500
Weight (kg)	870
Speed of pushing dog (m/sec)	0.1-0.6
Force exerted through dog (kg)	1,370

The EGT-2 is also a piston-action unit, but it runs on a hydraulic sys-
tem, using an oil medium and an electric pump. An experimental series of
these machines has been put out by the Malakhovskiy Plant.

Specifications

Dimensions (mm):	
Length	4,618
Width	500
Weight (kg)	1,360
Electric motor, power (kw)	8
Speed of pushing dog (m/sec)	0.15
Force exerted through dog (kg)	1,700

- 1 -

SECRET

CLASSIFICATION

SECRET

STATE	<input checked="" type="checkbox"/> NAVY	<input checked="" type="checkbox"/> NSRB		DISTRIBUTION								
ARMY	<input checked="" type="checkbox"/> AIR	<input checked="" type="checkbox"/> FBI										

SECRET

SECRET

50X1-HUM

The MTsT and the ET chain-driven, electric-powered feeders are made at the Tovarkovskiy and the Don Mining-Machinery Repair Plants. Designed for use at stationary loading and switching points, they require foundations of 300-800 millimeters' depth.

Specifications, MTsT-3

Dimensions (mm):	
Length	2,000
Width	300
Weight (kg)	1,200
Electric motor, power (kw)	4.5
Speed of pushing dog (m/sec)	0.2
Force exerted through dog (kg)	1,650

Specifications, ET-1

Dimensions (mm):	
Length	3,500
Width	300
Weight (kg)	2,300
Electric motor, power (kw)	8
Speed of pushing dog (m/sec)	0.2
Force exerted through dog (kg)	3,000

The KT-3 cable-drawn, electric-powered model is made at the Kopeysk Mining-Machinery Repair Plant, and is being put into production at the Toret-skiy Plant. It is used at movable and semistationary loading points. The cable must be changed every 10-12 days.

Specifications

Dimensions (mm):	
Length	7,145
Width	450
Weight (kg)	1,200
Electric motor, power (kw)	5.8
Speed of pushing dog (m/sec)	0.26
Force exerted through dog (kg)	1,325

The BET-1 chain-driven electric-powered model is produced by the Khar'-kov Svet Shakhtera Plant. The chain loop runs in a horizontal plane, and the unit does not require a foundation. It is used at loading and switching points.

Specifications

Dimensions (mm):	
Length	4,000
Width	375
Weight (kg)	1,275
Electric motor, power (kw)	4.5
Speed of pushing dog (m/sec)	0.2
Force exerted through dog (kg)	1,200

Three special feeders for exchanging cars in cages are put out at present. The model produced at the Svet Shakhtera Plant is a chain-driven, electric-powered type, mounted between the rails, and requiring no foundation. Its dog acts on the rear buffer of the car.

- 2 -

SECRET

SECRET

SECRET

SECRET

50X1-HUM

Specifications

Electric motor, power (kw)	4.2
Speed of pushing dog (m/sec)	0.7
Force exerted through dog (kg)	300

The second feeder, like the first one, acts on the rear buffer of the car. It is pneumatic-powered.

Specifications

Speed of pushing dog (m/sec)	0.7
Force exerted through dog (kg)	300

The third feeder of this category is actually a form of telpther, mounted on beams 2.1 meters above the rails; the pushing dog is affixed to the end of an arm, which is lowered to push against the body of the mine car.

Specifications

Electric motor, power (kw)	2.3
Speed of pushing dog (m/sec)	0.5
Force exerted through dog (kg)	200

PUMPS HAVE PLASTIC BEARINGS -- Moscow Ugol', No 10, Oct 50

The Gorlovka Machine-Building Plant imeni Kirov has developed a new centrifugal pump for use in coal mines. The pump has been tested, and a group of them has been put into operation.

Specifications

Productivity (cu m/hr)	30-50-70
Head (meters)	50-250
Number of stages	2-10
Revolutions per minute	1,450

Another pump is being readied for production at the same plant.

Specifications

Productivity (cu m/hr)	100-150
Head (meters)	60-270
Number of stages	2-9
Revolutions per minute	1,450

Plastic bearings, which have been found to have a low friction coefficient and resistance to seizing, are used in the pumps. The bearings are water-lubricated, but since the pumps will occasionally run dry, subjecting the bearings to damaging wear, graphite has been added to the plastic, giving the bearings a higher heat conductivity. They are made at the Khar'kov Nabivok Plant.

NEW CONVEYER EQUIPPED WITH 2-PULLEY DRIVE -- Moscow, Ugol', No 10, Oct 50

The new LKU-250 belt conveyer put out by the Khar'kov Svet Shakhtera Plant is designed for moving coal on an incline. The specifications of the conveyer are as follows:

- 3 -

SECRET

SECRET

SECRET

SECRET

50X1-HUM

Productivity (tons/hr)	250
Belt speed (m/sec)	1.21
Type motor	MA-146-1/6
Power (kw)	46
Revolutions per minute	980
Slope angle of conveyer (deg)	8
Length of conveyer at 8-deg slope	
angle (mm)	200
Diameter of drive pulleys (mm)	600
Number of drive pulleys	2
Arc of contact /sum of two arcs/ between belt and drive pulleys (deg)	470
Speed of drive pulley (rpm)	38.8
Width of belt (mm)	900
Take-up system	gravity
Maximum height of drive head (mm)	2,350

EXCEEDS PRODUCTION QUOTA -- Kiev, Pravda Ukrainy, 28 Oct 50

The Khar'kov Svet Shakhtera Plant has exceeded the production called for in the Five-Year Plan, and improved the quality of its products. Production of the LKU-250 conveyer is now well under way. This conveyer is specially designed for work on slopes.

Another important product of the plant is the SK-30 scraper conveyer, which is operated in conjunction with the Donbass combine.

The plant has produced a new lamp of increased candle power, the LAU-4.

In the first and third quarters of this year, the plant held first place in the all-Union competition among enterprises of the coal industry. The average monthly production per worker is now double the prewar figure.

- E N D -

- 4 -

SECRET

SECRET